

Date: Sat, 18 Sep 93 00:38:14 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #1109  
To: Info-Hams

Info-Hams Digest                      Sat, 18 Sep 93                      Volume 93 : Issue 1109

Today's Topics:

    \*\*\* Special Event Station \*\*\* Sept 17-19  
        >>Neighborhood watch groups  
Antenna Covenants AGAIN (but now with a twist!)  
    It's been over 24 hours, should I phone?  
        Mobile Handbook  
        need expert info on nicads. (4 msgs)  
        Need help - wiring Icom remote mic  
        Neighborhood watch groups  
Question about ni-cads (was Re: need expert info on nicads.)  
        Radio Shack HTXs  
        There goes the rest of 20M  
W8YX - the University of Cincinnati ARC needs your help!  
        White Noise Generator  
        Who Wrote Scratchi?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Thu, 16 Sep 1993 08:23:59 EDT  
From: dog.ee.lbl.gov!agate!spool.mu.edu!olivea!news.bu.edu!dartvax!  
saturn.caps.maine.edu!maine.maine.edu!rlm@network.ucsd.edu  
Subject: \*\*\* Special Event Station \*\*\* Sept 17-19  
To: info-hams@ucsd.edu

    \* \* \* Special Event Station \* \* \*

The University of Maine ARC will operate W1YA 1300Z-2100Z September 17-19

to honor Harold H. Beverage. Operation will be in the lower portion of the General subbands and the Novice 10-meter phone subband. For certificate, send QSL card and a 9x12 inch S.A.S.E. to:

UMARC  
C/O Bryan Newman  
5708 Barrows Hall, room 7  
University of Maine  
Orono, ME 04469-5708

-----  
Date: 16 Sep 93 04:56:53 GMT  
From: dog.ee.lbl.gov!agate!biosci!joes!shibumi@network.ucsd.edu  
Subject: >>Neighborhood watch groups  
To: info-hams@ucsd.edu

randy@cyphyn.radnet.com (Randy) writes:  
>mcduffie@unlinfo2.unl.edu (Gary McDuffie Sr) writes:  
>: robert@amanda.jpunix.com (robert) writes:  
>:  
>: >Or...establish your OWN repeater.  
>:  
>: > --Robert  
>:  
>:  
>: Yeah! Then the crooks will have a central place to gather information!  
>:  
>: Gary

>See? Thats yet another thing to consider, too.

More like something to ignore. You aren't guarding Fort Knox or the Bank of England, you're providing a neighborhood presence to \*deter\* crime thru threat of apprehension. The mutants aren't going to spend hours in their cars, playing COMINT games trying to determine where you are, they will just see you out there and move along. Well, they might try to mindf\*ck you first, but regardless they aren't going to spend hours with a scanner trying to find out which repeater you're using.

Kenton A. Hoover  
Deputy Director of Operations (acting)  
San Francisco Street Patrol  
KC6SST / KAE9193

Kenton A. Hoover	
P.O. Box 882643	+1 415 957 3614
San Francisco, Kalifornia 94188-2643	shibumi@joes.garage.com

|=====442.075+100=146.850+=444.625+131.8=440.900+114.8=====|  
| Remember, Captain Scarlet is indestructable. |  
| You are not. |  
| It is important to remember this. |  
| - Col. Gray "Thunderbirds FAB - The Next Generation" |

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Date: Thu, 16 Sep 1993 13:58:33 GMT  
From: pravda.sdsc.edu!news.cerf.net!usc!sdd.hp.com!hpscit.sc.hp.com!hplextra!hplb!  
hpwin052!hpqmoa!dstock@network.ucsd.edu  
Subject: Antenna Covenants AGAIN (but now with a twist!)  
To: info-hams@ucsd.edu

SALES SALES SALES SALES SALES SALES SALES SALES SALES SALES SALES SALES

The only word a property developer can hear....

While there's a bit of a recession on, let's make the most of it.

Visit a showhouse or two, and in passing, enquire about restrictions on external antennae etc. If you don't like the reply, just say, "Oh Well, that rules this place out then,..." don't lose your temper just look like a good prospect of a sale that walked out.

Let's give 'em the idea they're losing sales

and allow them to assume they're losing money.

Cheers,

David

-----  
Date: Thu, 16 Sep 1993 12:02:26 GMT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!math.ohio-state.edu!  
news2.uunet.ca!ukma!miles@network.ucsd.edu  
Subject: It's been over 24 hours, should I phone?  
To: info-hams@ucsd.edu

ritterbus001@wctsub.ctstateu.edu writes:

>The sales guy convinced me that the TSP plan was a Good Idea, since  
>a portable unit such as that was subject to breakage from dropping,  
>kids, etc., and that RS would repair under these conditions. In  
>checking the full sheet on the TSP, it said that repairs due to  
>accidents were \_not\_ covered, and I wonder if anybody has had any

>experience with this?

I had the same experience recently. My brother and I bought some items and the store manager put the hard-sell on the TSP service plan. He explained how it would REPLACE either unit whether dropped, or by whatever accident. He even mentioned dropping it in water! Later at home, I read the fine print too. Of course they get primo commission for selling these TSP's.

>Well, 73's, and I hope to be on the 2M band in "6 to 8 weeks" :-)

>Jim Ritterbusch

>Bethel, CT

-----  
Date: Thu, 16 Sep 1993 16:53:39 GMT  
From: swrinde!sdd.hp.com!spool.mu.edu!howland.reston.ans.net!darwin.sura.net!  
rsg1.er.usgs.gov!dgg.cr.usgs.gov!bodoh@network.ucsd.edu  
Subject: Mobile Handbook  
To: info-hams@ucsd.edu

Does anyone have "The Mobile Handbook" by Dave Ingram (K4TWJ) that can comment on it? Is it worthwhile for a newcomer to amateur radio who has some experience installing stereos and scanners? Thought I would ask before ordering...Thanks and 73's...

--  
+++++  
+ Tom Bodoh - Sr. systems software engineer, Hughes STX, N0YGT +  
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +  
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)  
+  
+ "Welcome back my friends to the show that never ends!" EL&P  
+  
+++++

-----  
Date: 18 Sep 93 01:33:21 +0900  
From: munnari.oz.au!uniwa!info.curtin.edu.au!cc.curtin.edu.au!  
zrepachol@network.ucsd.edu  
Subject: need expert info on nicads.  
To: info-hams@ucsd.edu

In article <m9c3n8INNar@exodus.Eng.Sun.COM>, falk@peregrine.Eng.Sun.COM (Ed Falk) writes:

> Hi all; I figured these newsgroups would be the best source for information.

>  
> Not too long ago there was a multi-part article on the care & feeding  
> of nicads. I'm sorry to say that I lost it; but as I recall, the  
> gist of it was as follows:

Don't feel too bad, I don't have a copy either...

> 1) it's very, very bad to reverse polarity on a nicad. For this  
> reason, completely discharging a device with multiple cells is  
> very bad, because if one cell has slightly less charge than the  
> rest, that one cell will be charged backwards by the others.  
> Once this happens, the cell is destroyed because internal shorts  
> form in the cell.

This is rule one, two and three of NiCds.

>  
> For this reason, you also want to make sure that all cells in a  
> device are as near to a matched set as can be, in terms both of  
> general characteristics and initial charge.  
>

...  
> 2) It's almost as bad to over-charge a nicad. This is where the  
> cheap R\*d\*\* Sh\*ck charger I use is causing me problems.  
> Detecting a full charge condition is rather tricky. This can be  
> done by watching for a temperature increase in the cell, or a  
> small voltage decrease towards the end of the charge cycle.  
>

Note that the temp rise CAUSES the voltage drop \*\*on charge\*\*.  
See below...

> Charging cells in series can cause problems because some cells  
> will reach full charge (and beyond!) before the others. Again,  
> a prevention is to make sure all cells are a matched set.  
>

No, charge and discharge each CELL on it own, on as a battery.  
Matched sets only postpone the day of reconing.

> Someone please correct me if I have any of the above wrong.

Pretty right on, but a matched set is NOT a cure all. BTW, oyu need to  
match for voltage, capacity, charge efficency and series resistance.

>  
> At any rate, it seems to me that the ideal nicad battery charger would operate  
> as follows:

>  
> 1) all cells charged individually, rather than in series.

Yes.

> 2) Deep cycle: discharge the battery at a fixed current until the  
> voltage drops to some threshold.  
>  
> 3) Charge: charge the battery at a fixed current until the  
> voltage climbs to some threshold.  
>  
> 4) Maintain: hold the cell at a specific "full charge" voltage.

NO!!

You need a pulsed current. VERY high charge current, high discharge, open circuit. You measure the voltage in each phase, and use the divergence of the derivatives to signal end of charge. you can charge a NiCd in 5-10 minutes this way, and get better life from the cell!!

> As you've probably guessed by now, I'm planning to design and build my  
> own charger -- one that does it RIGHT for a change. Can anybody tell  
> me what the lower (discharge) and upper (full charge) voltages should  
> be? Can anybody tell me what good discharge and charge currents should  
> be? (I'll be mainly using this to charge AA's for my camera gear.)  
>

Since you are at Sun, see if you can track down a mob called "Intergrated Circuit Systems". They make a DSP chip that is programed for just this job. ;-0 and tell me where I can get them ;-)

For details, look in the Journal of the SMPTE of about the very late 70's to early 80s for articles on Christie 'reflex' pulse chargers.

~Paul

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Date: 18 Sep 93 02:01:33 +0900  
From: munnari.oz.au!uniwa!info.curtin.edu.au!cc.curtin.edu.au!  
zrepachol@network.ucsd.edu  
Subject: need expert info on nicads.  
To: info-hams@ucsd.edu

I just found the best set of articles on NiCds I know of, so here is the reference.

Rod Cooper, Wireless World, May, june & july 1985. Plus also September

from memory?? but not sure. Also include a reasonable good charger,  
and construccction details.

~Paul

PS, If some one has a copy of my post from back when feel free to re-post.  
I need a copy my-self. :-)

-----  
Date: 18 Sep 93 01:54:50 +0900  
From: munnari.oz.au!uniwa!info.curtin.edu.au!cc.curtin.edu.au!  
zrepachol@network.ucsd.edu  
Subject: need expert info on nicads.  
To: info-hams@ucsd.edu

In article <Wayne.Orwig.74.000CC9C4@AtlantaGA.NCR.COM>,  
Wayne.Orwig@AtlantaGA.NCR.COM (Wayne Orwig) writes:  
> In article <m9c3n8INNar@exodus.Eng.Sun.COM> falk@peregrine.Eng.Sun.COM (Ed Falk)  
writes:  
>  
>>Hi all; I figured these newsgroups would be the best source for information.  
>  
> -----( probably not )-----  
Too true...

One other 'detail'. Cd has an evil habit of forming 'dendrites' in cells.  
These will grow through the seperator, and short the cell, so DON'T use  
nice clean filtered DC to charge them. Use offset AC, same as the  
electro-platers do to get a smooth hard plating. The reversal of current  
will remove any dendrite in short order.

Only use batteries in sealed packs if you like throwing them away. It only  
takes a few small holes in the case and you can get at each cell.

Also the prices for the packs is out-ragous. \$2.45 ea for Saft Cs, vs  
\$85 for 5 in a pack. pass.

~Paul

-----  
Date: 16 Sep 93 10:51:11  
From: pipex!uknet!ukc!gos.ukc.ac.uk!mcw@uunet.uu.net  
Subject: need expert info on nicads.  
To: info-hams@ucsd.edu

In article <277h5f\$5j1@bigguy.eng.ufl.edu> thoman@helios.tcad.ee.ufl.edu (Greg

Thoman) writes:

```
>|>      3) There is a memory effect, in which a nicad which is charged
>|> and discharged on a very consistent cycle will eventually reach
>|> a state where it can no longer be discharged below it's habitual
>|> discharge point. This effect is very slight, and was originally
>|> observed in satellites
>
> No, this effect is NON-EXISTENT under the circumstances and
>with the battery types you have mentioned.
```

[Cue religious debate :-]

This effect does exist - I know because I've observed it.

I bought my RC gear a year-or-so before I was finally in a position to get back into flying, and during that period I would occasionally give the batteries a top-up charge. Before using the gear in anger I bought a cyclor - it discharges the pack to a safe low level, lighting an LED bar graph as it goes, and then recharges the pack.

On the first cycle (after an overnight trickle charge) the RX battery managed something like 60% of its stated capacity, on the second it managed (I think - this was some time ago) 80%, and only on the third attempt did it manage 100%. The TX battery behaved in a similar manner.

So yes, the effect is real - a fact that I thought was generally accepted nowadays...

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      /  /
    _/_/ // _/_/ | --Mark
 | ( / // _/_/ --
   /_//
  /_//
```

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 = [
 d
```

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Date: Thu, 16 Sep 93 11:08:29 GMT  
From: mnemosyne.cs.du.edu!nyx!dtock@uunet.uu.net  
Subject: Need help - wiring Icom remote mic  
To: info-hams@ucsd.edu

I have an Icom IC21, and am trying to connect a headset to it.

I would like to wire the headset through a switch box with a PTT in it, but I notice the Icom mics (ie HM75) have up down and band select buttons as well.



Given that all the connections are through the mic and ext speaker jacks, that makes 5 switches, a mic and a speaker, all wired through 3 leads. plus ground and supply! I guess it is all done with resistors and capacitors (the mic isn't active is it?)

OK. So hows it done. Does anyone have a schematic for the HM75 or similar? Has anyone opened up theirs and can describe it for me. Basically, how the heck does it work???

Any information appreciated, even if it is based on other manufacturers, as it may be relevant. I have studied the circuits, but can not figure it out from there alone.

Thanks and 73s

David (GM0SYA)

-----  
Date: Sat, 18 Sep 1993 07:16:14 GMT  
From: news.cerf.net!pagesat!indirect.com!nu7i@network.ucsd.edu  
Subject: Neighborhood watch groups  
To: info-hams@ucsd.edu

The neighborhood watch is a great application of amateur radio. I don't think that it is necessary to get permission from a repeater group before using it on such an event. This is even if that repeater is the local chat box. We must remember that amateur radio is a service first and a chat box secondly or maybe even chatting should be as low as the third or least important levels.

I participate in a walk with my blindness organization and we don't seek permission since we don't know really whether or not we'll need the use of a repeater. Of course, I probably wouldn't break into a busy repeater but I figure anyone who wouldn't want us to do a public service event with their repeater better have a legitimate service-related reason. 73 for now.

--  
President: Visually Impaired Student Concerns, Arizona State University  
(The complete information access agenda.)

-----  
Date: 16 Sep 1993 10:57:32 -0400  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!darwin.sura.net!udel!news.intercon.com!panix!not-for-mail@network.ucsd.edu  
Subject: Question about ni-cads (was Re: need expert info on nicads.)  
To: info-hams@ucsd.edu

(lot's of debate about the reasons for just about every radio and every manufacturer using different and incompatible battery packs deleted).

to which I throw in my \$0.25...

what I'd like to see is battery packs which can be -readily- dismantled, and in which I could easily replace the cells with STANDARD "c" or similar nicads. It would make life -much- more civilized.

Also, related to this is my most recent peeve. Have you checked out the dc input plug on teh Icom W2A? Is there -anything else- in the world which uses that wierd assembly?

dannyb@panix.com

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-----  
dannyb@panix.com adds: all the usual disclaimers regarding liability, intelligence, accuracy apply. spelling disclaimer is doubled.  
and...

while science is pretty sure that the sun will rise in the east tomorrow, we're not quite so sure it'll be shining.... (i.e. where are the neutrinos?)

-----  
Date: Wed, 15 Sep 1993 18:41:34 GMT  
From: dog.ee.lbl.gov!agate!spool.mu.edu!sdd.hp.com!col.hp.com!news.dtc.hp.com!srngenprp!alanb@network.ucsd.edu  
Subject: Radio Shack HTXs  
To: info-hams@ucsd.edu

LAMBERT, R (lambert@estd.nrl.navy.mil) wrote:  
: About that "spur" at 146.76 on the Radio Shack HTX-202. I've  
: noticed that it disappears when I hook up a real antenna.

That's because it radiates out the keypad and is picked up by the rubber ducky. If you use an external antenna with shielded feedline, it disappears.

AL N1AL

-----  
Date: Fri, 17 Sep 1993 20:49:59 GMT  
From: psinntp!gdstech!gdstech!bat@uunet.uu.net  
Subject: There goes the rest of 20M

To: info-hams@ucsd.edu

We've had packet blasts on our repeater. We copied the ID, and went to see the guy. He was on another frequency, and was intermodding us. Pretty interesting. Also, many guys switch their radio to a repeater frequency, and forget to disconnect from their session first. They sit there Sunday nights listening to our DX net, all the while throwing packets at us till they timeout. And they never know it.

--

```
*-----*
*   Pat Masterson   D12-25   | KE2LJ@KC2FD           *
*   Grumman Data Systems | 516-346-6316.         *
*   Bethpage, NY 11746   | bat@gdstech.grumman.com    *
```

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Date: 16 Sep 1993 01:33:42 -0400  
From: pravda.sdsc.edu!news.cerf.net!usc!sdd.hp.com!news.cs.indiana.edu!  
babbage.ece.uc.edu!ucunix.san.uc.edu!ucunix.san.uc.edu!not-for-  
mail@network.ucsd.edu  
Subject: W8YX - the University of Cincinnati ARC needs your help!  
To: info-hams@ucsd.edu

Hello,

I am a member of W8YX - the University of Cincinnati Amateur Radio Club. Over the last few years, we have been struggling to increase activity in our club. Now with membership increasing, we may be facing other struggles that will determine the survival of the club.

What I am looking for is any information any of you may have that relates to the historical significance of W8YX. We do have logs that date back to 1924 and have found newspaper clippings with some historical information. It is also believed that W8YX is the first amateur station in Cincinnati to have contacted a moving aircraft. We would like to compile a more complete history of the club.

Any information that you may have would be greatly appreciated.

Thanks!

Chris B. Sakkas  
(sakkascb@ucunix.san.uc.edu)

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Date: Fri, 17 Sep 1993 20:40:31 GMT  
From: olivea!news.bu.edu!att!cbnews!ka1gt@decwrl.dec.com  
Subject: White Noise Generator  
To: info-hams@ucsd.edu

In article <CDI91G.Ln9@bernina.ethz.ch>, schaerer@isi.ee.ethz.ch (Thomas Schaerer) writes:

> Nick Bryant (bryant@mpr.ca) wrote:  
> : I am now looking for a simple circuit which will generate a white  
> : noise signal, suitable for the AUX input of a spare amplifier I own.  
> : Does anyone have a \_proven\_ circuit they would care to share?  
>  
> Yes, I have a \_proven\_ circuit.  
>  
>  
> An easy way to realize white noise  
> =====

Please note the change in distribution for this thread. It's propagating into rec.photo where it really isn't appropriate. If you could delete rec.photo from other replies on this topic, it would be appreciated.

Thanks  
Bob Atkins

-----  
Date: 17 Sep 93 22:26:46 GMT  
From: ogicse!hp-cv!hp-pcd!hpcvsnz!tomb@network.ucsd.edu  
Subject: Who Wrote Scratchi?  
To: info-hams@ucsd.edu

Don Montgomery (donrm@sr.hp.com) wrote:

: For the uninitiated, Hashafisti Scratchi was a fictitious character

And don't forget his brother, Itchi. Yep, I remember them...

73, K7ITM

-----  
Date: Thu, 16 Sep 93 13:23:57 GMT  
From: mnemosyne.cs.du.edu!nyx!lkollar@uunet.uu.net  
To: info-hams@ucsd.edu

References <1993Sep14.200600.1095@ke4zv.atl.ga.us>,  
<1993Sep15.134932.595@mnemosyne.cs.du.edu>,

<1993Sep15.204704.8631@ke4zv.atl.ga.us>  
Subject : Re: There goes the rest of 20M

Me again:

>> Discussing  
>>politics & religion over the air (controversy!), for example, is something  
>>that can really get you zapped. It happened to a good friend of mine.

gary@ke4zv.atl.ga.us (Gary Coffman) writes:

>Well it depends on what you mean by "zapped".

Lots of consistent, long-term jamming (lots of DTMF garbage over the top of his QSOs, usually with his brother). It was pretty obvious who was doing it to begin with, and DF'ing confirmed it. The visit to the guy's house brought no positive results. (Gary only - if you want details, naming names, etc., send email and I'll tell you about it.)

> I've rarely experienced  
>real harassment, such as deliberate jamming. In the rare cases when it  
>has happened, I either reach over and turn up that big rheostat controlling  
>power, or come in on the control channel and laugh and make fun of the poor  
>jammer. :-) In persistent cases, there's always the DF gear.

I suggested much the same to my friend... that he and his brother get 160W linears for their cars & turn them on when the jamming started.

> The most severe zap would  
>be someone coming looking for me with a gun. That's happened, but not  
>over amateur radio. I merely make sure I'm better armed, and a better  
>shot. It doesn't hurt if you can run and duck fast too. :-)

Oboy. You like living on the edge, huh? :-) I'm pretty well-armed myself, but thank God I've never had to shoot at anyone else.

>What are our problems on the bands?

[Good list deleted - I can't add anything to it.]

--

Larry Kollar, KC4WZK | I like CW, but that doesn't mean I think every ham  
lkollar@nyx.cs.du.edu | should have to learn it.

"You mean you came back from the dead, to tell me I'm \*odd\*?"

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End of Info-Hams Digest V93 #1109

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